

Huilin Qu

List of Publications by Year in descending order

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Version: 2024-02-01

272
papers

6,836
citations

76294

40
h-index

114418

63
g-index

284
all docs

284
docs citations

284
times ranked

7560
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 421. | 1.4 | 355 |
| 2 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 1.4 | 198 |
| 3 | Jet tagging via particle clouds. Physical Review D, 2020, 101, . | 1.6 | 140 |
| 4 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$, $\sqrt{s} = 13$, $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 1.4 | 123 |
| 5 | The Machine Learning landscape of top taggers. SciPost Physics, 2019, 7, . | 1.5 | 106 |
| 6 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 103 |
| 7 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 101 |
| 8 | Search for new phenomena with the M_{T2} variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710. | 1.4 | 98 |
| 9 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 86 |
| 10 | Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017. | 0.5 | 84 |
| 11 | Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2018, 78, 509. | 1.4 | 83 |
| 12 | Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{NN}}=2.76$ TeV. European Physical Journal C, 2017, 77, 252. | 1.4 | 82 |
| 13 | Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 82 |
| 14 | Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75. | 1.4 | 78 |
| 15 | Search for additional neutral MSSM Higgs bosons in the $\tau\tau$, $\tau\tau$, final state in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 73 |
| 16 | Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$, $\sqrt{s}=13$, $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 3. | 1.4 | 70 |
| 17 | Measurement of the $t\bar{t}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368. | 1.4 | 68 |
| 18 | Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 66 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 63 |
| 20 | Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 62 |
| 21 | Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 62 |
| 22 | Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p p$ collisions at 8 TeV. European Physical Journal C, 2018, 78, 701. | 1.4 | 58 |
| 23 | Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578. | 1.4 | 57 |
| 24 | Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 25 | Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 57 |
| 26 | Search for charged Higgs bosons in the $H^{\pm} \rightarrow \tau^{\pm} \nu_{\tau}$ decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 54 |
| 27 | Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 54 |
| 28 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 54 |
| 29 | Measurement of prompt and nonprompt J/ψ production in $p p$ and $p p$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269. | 1.4 | 53 |
| 30 | Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459. | 1.4 | 52 |
| 31 | Measurements of the $p p \rightarrow Z p p$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165. | 1.4 | 52 |
| 32 | Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 564. | 1.4 | 50 |
| 33 | Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364. | 1.4 | 48 |
| 34 | Search for third-generation scalar leptoquarks decaying to a top quark and a τ lepton at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 707. | 1.4 | 46 |
| 35 | Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140. | 1.4 | 44 |
| 36 | Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 43 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |
| 38 | Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 42 |
| 39 | Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 41 |
| 40 | Measurement of properties of $\mathcal{B}^0 \rightarrow \mathcal{B}^0 \gamma$ decays and search for $\mathcal{B}^0 \rightarrow \mathcal{B}^0 \gamma$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 41 |
| 41 | Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 41 |
| 42 | Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789. | 1.4 | 40 |
| 43 | Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=13$ TeV and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313. | 1.4 | 40 |
| 44 | Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 40 |
| 45 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378. | 1.4 | 40 |
| 46 | Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965. | 1.4 | 39 |
| 47 | Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}= 13$ TeV. European Physical Journal C, 2017, 77, 845. | 1.4 | 38 |
| 48 | Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636. | 1.4 | 38 |
| 49 | Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 38 |
| 50 | Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 37 |
| 51 | Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 37 |
| 52 | Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b} \gamma \gamma$ final state in proton-proton collisions at $s = 13 \sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 36 |
| 53 | Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 35 |
| 54 | Measurement of exclusive $\mathcal{Upsilon}$ photoproduction from protons in $p\bar{p}$ collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277. | 1.4 | 35 |

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|----|--|-----|-----------|
| 55 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 488. | 1.4 | 35 |
| 56 | Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two \tilde{l} , leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 57 | Measurement of the top quark mass with lepton+jets final states using \mathcal{M}_{top} collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2018, 78, 891. | 1.4 | 34 |
| 58 | Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 34 |
| 59 | Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ $s = 13 \text{ TeV}$. European Physical Journal C, 2019, 79, 90. | 1.4 | 34 |
| 60 | Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two \tilde{l} , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 33 |
| 61 | Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2019, 79, 702. | 1.4 | 33 |
| 62 | Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 13. | 1.4 | 33 |
| 63 | Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 3. | 1.4 | 33 |
| 64 | Measurement of $\sigma_{\text{pp}}^{\text{normalised}}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1. | 1.4 | 33 |
| 65 | Searches for pair production of third-generation squarks in $\sqrt{s} = 13 \text{ TeV}$ $s = 13 \text{ TeV}$, $\text{ext } \{\text{TeV}\}$ pp collisions. European Physical Journal C, 2017, 77, 327. | 1.4 | 32 |
| 66 | Search for top squark pair production in pp collisions at $s = 13 \text{ TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 31 |
| 67 | Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 31 |
| 68 | A multi-dimensional search for new heavy resonances decaying to boosted W , Z , or Z boson pairs in the dijet final state at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 237. | 1.4 | 31 |
| 69 | A search for new phenomena in pp collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$ $s = 13 \text{ TeV}$ in final states with missing transverse momentum and at least one jet using the α_T variable. European Physical Journal C, 2017, 77, 294. | 1.4 | 29 |
| 70 | Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $s = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 29 |
| 71 | Search for lepton flavour violating decays of the Higgs boson to $\tilde{l}^* \tilde{l}$, and $e \tilde{l}$, in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |
| 72 | Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 29 |

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|----|---|-----|-----------|
| 73 | Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 280. | 1.4 | 29 |
| 74 | Measurements of $\overline{\sigma}(\mathbb{p}\mathbb{p})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons. Journal of High Energy Physics, 2019, 1. | 1.6 | 28 |
| 75 | Search for $\overline{\sigma}(\mathbb{p}\mathbb{p})$ production in the $\mathbb{H}\rightarrow\mathbb{b}\overline{\mathbb{b}}$ decay channel with leptonic $\overline{\sigma}(\mathbb{p}\mathbb{p})$ decays in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 1. | 1.6 | 28 |
| 76 | Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 28 |
| 77 | Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 28 |
| 78 | Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 27 |
| 79 | Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 291. | 1.4 | 27 |
| 80 | Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027. | 0.5 | 27 |
| 81 | Search for new neutral Higgs bosons through the $\mathbb{H}\rightarrow\mathbb{Z}\mathbb{A}\mathbb{e}^+\mathbb{e}^-\mathbb{b}\overline{\mathbb{b}}$ process in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 27 |
| 82 | Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 27 |
| 83 | Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 26 |
| 84 | Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 26 |
| 85 | Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 26 |
| 86 | Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 25 |
| 87 | Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 25 |
| 88 | Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 25 |
| 89 | Search for new particles decaying to a jet and an emerging jet. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 24 |
| 90 | Measurements of $\mathbb{p}\mathbb{p}\rightarrow\mathbb{Z}\mathbb{Z}$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 200. | 1.4 | 24 |

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|-----|--|-----|-----------|
| 91 | Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 354. | 1.4 | 23 |
| 92 | Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746. | 1.4 | 23 |
| 93 | Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 94 | Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 23 |
| 95 | Search for resonant $\overline{t}t$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 23 |
| 96 | Search for a light pseudoscalar Higgs boson in the boosted $\tau\tau$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 23 |
| 97 | Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 752. | 1.4 | 23 |
| 98 | Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 23 |
| 99 | Search for $t\overline{t}$ resonances in highly boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 100 | Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 101 | Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 102 | Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying τ , leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 103 | Search for direct pair production of supersymmetric partners to the τ lepton in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 189. | 1.4 | 22 |
| 104 | Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 370. | 1.4 | 22 |
| 105 | Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 21 |
| 106 | Search for supersymmetry in events with a τ , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 21 |
| 107 | Search for beyond the standard model Higgs bosons decaying into a $b\overline{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 21 |
| 108 | A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10. | 1.3 | 21 |

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|-----|---|-----|-----------|
| 109 | Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 21 |
| 110 | Search for $\overline{\text{t}}\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 20 |
| 111 | Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 20 |
| 112 | Search for rare decays of Z and Higgs bosons to J/ψ and a photon in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 94. | 1.4 | 20 |
| 113 | Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 20 |
| 114 | Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 20 |
| 115 | A search for the standard model Higgs boson decaying to charm quarks. <i>Journal of High Energy Physics</i> , 2020, 2020, 1. | 1.6 | 20 |
| 116 | Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 19 |
| 117 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 723. | 1.4 | 19 |
| 118 | Measurement of normalized differential $\overline{\text{t}}\text{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 18 |
| 119 | Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 18 |
| 120 | Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1. | 1.6 | 18 |
| 121 | Measurement of differential cross sections for inclusive isolated-photon and photon+jet production in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 20. | 1.4 | 18 |
| 122 | Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1. | 1.6 | 18 |
| 123 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 629. | 1.4 | 18 |
| 124 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2021, 81, 970. | 1.4 | 18 |
| 125 | Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2022, 82, 290. | 1.4 | 18 |
| 126 | Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 17 |

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|-----|---|-----|-----------|
| 127 | Measurements of jet charge with dijet events in pp collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 17 |
| 128 | Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $s = 8 \sqrt{s} = 8 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 129 | Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s_{\text{NN}}} = 5.44 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 130 | Search for $Z\tilde{\chi}^0_3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 131 | Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 132 | Search for the decay of a Higgs boson in the $\tilde{a}, \tilde{a}, \tilde{\chi}^0_3$ channel in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 17 |
| 133 | Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 697. | 1.4 | 17 |
| 134 | Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2018, 78, 1. | 1.4 | 17 |
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